

Lumber Spans Quick Reference Card



Floor Joists

- 10 PSF dead load
- L/360 deflection limit

Grade►		Framer Series™		#1 SYP		#2 SYP		#2 & Better SPF		
Live Load (PSF)►		30 LL	40 LL	30 LL	40 LL	30 LL	40 LL	30 LL	40 LL	
Size and O.C. Spacing	2x6	12"	11'-10"	10'-9"	11'-10"	10'-9"	11'-3"	10'-3"	11'-3"	10'-3"
		16"	10'-9"	9'-9"	10'-9"	9'-9"	10'-3"	9'-4"	10'-3"	9'-4"
		24"	9'-4"	8'-6"	9'-4"	8'-6"	8'-6"	7'-7"	8'-11"	8'-1"
	2x8	12"	15'-10"	14'-5"	15'-7"	14'-2"	14'-11"	13'-6"	14'-11"	13'-6"
		16"	14'-5"	13'-1"	14'-2"	12'-10"	13'-3"	11'-10"	13'-6"	12'-3"
		24"	12'-7"	11'-5"	12'-4"	11'-3"	10'-10"	9'-8"	11'-6"	10'-3"
	2x10	12"	20'-3"	18'-5"	19'-10"	18'-0"	18'-1"	16'-2"	19'-0"	17'-3"
		16"	18'-5"	16'-9"	18'-0"	16'-1"	15'-8"	14'-0"	17'-2"	15'-5"
		24"	16'-1"	14'-7"	14'-8"	13'-1"	12'-10"	11'-5"	14'-1"	12'-7"
	2x12	12"	24'-8"	22'-5"	24'-2"	21'-11"	21'-4"	19'-1"	23'-0"	20'-7"
		16"	22'-5"	20'-4"	21'-4"	19'-1"	18'-6"	16'-6"	19'-11"	17'-10"
		24"	19'-7"	17'-9"	17'-5"	15'-7"	15'-1"	13'-6"	16'-3"	14'-7"

Ceiling Joists

- L/240 deflection limit

Lumber Grade►		Framer Series™ Lumber	
Live/Dead Load (PSF)►		10 LL/5 DL	20 LL/10 DL
Size and O.C. Spacing	2x6	12"	19'-6"
		16"	17'-8"
		24"	15'-6"
	2x8	12"	26'-0"
		16"	23'-10"
		24"	20'-10"
	2x10	12"	26'-0"
		16"	26'-0"
		24"	20'-7"

Framer Series™ Lumber spans based on 2x6 M-12 and 2x8, 2x10, 2x12 M-29 grade Machine Evaluated Lumber.

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Rafters

Medium roofing, drywall ceiling,
snow load

- 15 PSF dead load
- L/240 deflection limit
- 115% load duration for snow loads

Lumber Grade▶		Framer Series™ Lumber		
Live Load (PSF)▶		20 LL	30 LL	40 LL
Size and O.C. Spacing	2x6	12"	15'-6"	13'-6"
		16"	14'-1"	12'-3"
		24"	12'-3"	11'-2"
	2x8	12"	20'-10"	18'-2"
		16"	18'-11"	16'-6"
		24"	16'-0"	15'-0"
	2x10	12"	26'-0"	23'-2"
		16"	24'-1"	21'-1"
		24"	20'-5"	19'-2"
	2x12	12"	26'-0"	23'-2"
		16"	26'-0"	25'-7"
		24"	24'-10"	21'-11"

Rafters

Drywall or no finished ceiling,
construction load

- 20 PSF live load
- 10 PSF dead load
- 125% load duration for construction loads

Lumber Grade▶		Framer Series™ Lumber	
Deflection Limit▶		L/240	L/180
Size and O.C. Spacing	2x6	12"	15'-6"
		16"	14'-1"
		24"	12'-3"
	2x8	12"	20'-10"
		16"	18'-11"
		24"	16'-6"
	2x10	12"	26'-0"
		16"	24'-1"
		24"	21'-1"

Framer Series™ Lumber spans based on 2x6 M-12 and 2x8, 2x10, 2x12 M-29 grade Machine Evaluated Lumber.